

p: 800-338-2855 • 610-926-4128 f: 610-926-6125 www.bulkchemicals.us • info@bulkchemicals.us

Page 1/13

Safety Data Sheet acc. to OSHA HCS

Printing date 11/22/2016 Reviewed on 11/22/2016

1 Identification

- · Product identifier
- · Trade name: Bulk Bond® 315 RP
- · Article number: B315RP
- · Application of the substance / the mixture Metal surface treatment
- · Details of the supplier of the safety data sheet
- Manufacturer/Supplier: Bulk Chemicals Inc. 1074 Stinson Drive READING, PA 19605 USA
- Information department:

Product safety department info@bulkchemicals.us

· Emergency telephone number: CHEMTREC 1-800-424-9300, outside US +1-703-527-3887

2 Hazard(s) identification

· Classification of the substance or mixture



GHS06 Skull and crossbones

Acute Tox. 3 H311 Toxic in contact with skin.



GHS08 Health hazard

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Muta. 2 H341 Suspected of causing genetic defects.

Carc. 1A H350 May cause cancer.

Repr. 1B H360 May damage fertility or the unborn child.

STOT RE 1 H372 Causes damage to organs through prolonged or repeated exposure.



GHS05 Corrosion

Skin Corr. 1C H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

(Contd. on page 2)

Printing date 11/22/2016 Reviewed on 11/22/2016

Trade name: Bulk Bond® 315 RP

(Contd. of page 1)



Acute Tox. 4 H332 Harmful if inhaled.

Skin Sens. 1 H317 May cause an allergic skin reaction.

- · Label elements
- · GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms







GHS05

GHS06

GHS08

- · Signal word Danger
- · Hazard-determining components of labeling:

phosphoric acid

hydrofluoric acid

nickel dinitrate

· Hazard statements

Toxic in contact with skin.

Harmful if inhaled.

Causes severe skin burns and eye damage.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

Suspected of causing genetic defects.

May cause cancer.

May damage fertility or the unborn child.

Causes damage to organs through prolonged or repeated exposure.

· Precautionary statements

Do not breathe dusts or mists.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a POISON CENTER/doctor.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

- · Classification system:
- · NFPA ratings (scale 0 4)



Health = 3 Fire = 0Reactivity = 0

(Contd. on page 3)

Printing date 11/22/2016 Reviewed on 11/22/2016

Trade name: Bulk Bond® 315 RP

· HMIS-ratings (scale 0 - 4)

(Contd. of page 2)



- · Other hazards
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous	Dangerous components:	
7664-38-2	phosphoric acid	25-50%
7664-39-3	hydrofluoric acid	1-≤2.5%
13138-45-9	nickel dinitrate	1-≤2.5%

4 First-aid measures

- Description of first aid measures
- · General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

Remove breathing apparatus only after contaminated clothing have been completely removed.

In case of irregular breathing or respiratory arrest provide artificial respiration.

· After inhalation:

Supply fresh air or oxygen; call for doctor.

In case of unconsciousness place patient stably in side position for transportation.

- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact:

Check for and remove any contact lenses

Rinse opened eye for several minutes under running water. Then consult a doctor.

· After swallowing:

Do not induce vomiting; immediately call for medical help.

Drink copious amounts of water and provide fresh air. Immediately call a doctor.

- Information for doctor:
- · Most important symptoms and effects, both acute and delayed

No further relevant information available.

· Indication of any immediate medical attention and special treatment needed No further relevant information available.

ıs -

(Contd. on page 4)

Printing date 11/22/2016 Reviewed on 11/22/2016

Trade name: Bulk Bond® 315 RP

(Contd. of page 3)

5 Fire-fighting measures

- Extinguishing media
- · Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: Full firefighting gear and SCBA

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

· Environmental precautions:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

· Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Use neutralizing agent.

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

- · Handling:
- · Precautions for safe handling

Avoid heat

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of aerosols.

· Information about protection against explosions and fires:

Keep respiratory protective device available.

- · Conditions for safe storage, including any incompatibilities
- Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: Keep receptacle tightly sealed.
- · Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see item 7.

(Contd. on page 5)

Printing date 11/22/2016 Reviewed on 11/22/2016

Trade name: Bulk Bond® 315 RP

(Contd. of page 4)

- · Control parameters
- · Components with limit values that require monitoring at the workplace:

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the remaining constituent has no known exposure limits.

```
7664-38-2 phosphoric acid

PEL Long-term value: 1 mg/m³

REL Short-term value: 3 mg/m³

Long-term value: 1 mg/m³

TLV Short-term value: 3 mg/m³

Long-term value: 1 mg/m³

7664-39-3 hydrofluoric acid

PEL Long-term value: 3 ppm

as F

REL Long-term value: 2.5 mg/m³, 3 ppm
```

REL Long-term value: 2.5 mg/m³, 3 ppm Ceiling limit value: 5* mg/m³, 6* ppm *15-min, as F

TLV Long-term value: 0.41 mg/m³, 0.5 ppm Ceiling limit value: 1.64 mg/m³, 2 ppm as F; Skin, BEI

13138-45-9 nickel dinitrate

PEL Long-term value: 1 mg/m³ as Ni

REL Long-term value: 0.015 mg/m³ as Ni; See Pocket Guide App. A TLV Long-term value: 0.1 mg/m³ as Ni; inhalable fraction

Ingredients with biological limit values:

7664-39-3 hydrofluoric acid

BEI 3 mg/g creatinine urine prior to shift

Fluorides (background, nonspecific)

10 mg/g creatinine urine end of shift

Fluorides (background, nonspecific)

- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

(Contd. on page 6)

Printing date 11/22/2016 Reviewed on 11/22/2016

Trade name: Bulk Bond® 315 RP

(Contd. of page 5)

Avoid contact with the eyes and skin.

Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:



Tightly sealed goggles

Faceshield

· Information on basic physical and · General Information	chemical properties	
· Appearance:		
Form:	Liquid	
Color:	Light green	
· Odor:	Acrid	
· Odor threshold:	Not determined.	
· pH-value at 15.6 °C (60 °F):	< 1	
· Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	101 °C (214 °F)	
· Flash point:	Not applicable.	
· Flammability (solid, gaseous):	Not applicable.	

(Contd. on page 7)

Printing date 11/22/2016 Reviewed on 11/22/2016

Trade name: Bulk Bond® 315 RP

		(Contd. of page
· Ignition temperature:		
Decomposition temperature:	Not determined.	
· Auto igniting:	Product is not selfigniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
· Vapor pressure at 20 °C (68 °F):	23 hPa (17 mm Hg)	
Density at 20 °C (68 °F):	1.46 g/cm³ (12.184 lbs/gal)	
Relative density	Not determined.	
Vapor density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
Water:	Fully miscible.	
Partition coefficient (n-octanol/wate	e r): Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
Organic solvents:	0.0 %	
Water:	52.1 %	
VOC content:	0.0 g/l / 0.00 lb/gl	
Other information	No further relevant information available.	

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- · Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

10

(Contd. on page 8)

Printing date 11/22/2016 Reviewed on 11/22/2016

Trade name: Bulk Bond® 315 RP

(Contd. of page 7)

11 Toxicological information

- Information on toxicological effects
- · Acute toxicity:
- LD/LC50 values that are relevant for classification:

1314-13-2 zinc oxide

Oral LD50 > 5000 mg/kg (rat)

7664-39-3 hydrofluoric acid

Oral LD50 1276 mg/kg (rat)

- Primary irritant effect:
- · on the skin: Caustic effect on skin and mucous membranes.
- · on the eye: Strong caustic effect.
- · Sensitization:

Sensitization possible through inhalation.

Sensitization possible through skin contact.

· Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Toxic

Harmful

Corrosive

Irritant

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

Carcinogenic if inhaled.

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

13138-45-9 nickel dinitrate

1

· NTP (National Toxicology Program)

13138-45-9 nickel dinitrate

K

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- Ecotoxical effects:
- · Remark: Toxic for fish
- · Additional ecological information:
- · General notes:

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

(Contd. on page 9)

Printing date 11/22/2016 Reviewed on 11/22/2016

Trade name: Bulk Bond® 315 RP

(Contd. of page 8)

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Dispose of waste in accordance with national, state and local regulations. It is the waste generator's responsibility to determine if a particular waste is hazardous under RCRA.

Dispose of containers in a licensed facility. Recommend crushing, puncturing or othe rmeans to prevent unauthorized use of used containers.

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport information	4 Transport information	
· UN-Number · DOT, ADR, IMDG, IATA	UN2922	
· UN proper shipping name		
· DOT	Corrosive liquids, toxic, n.o.s. (Hydrogen fluoride,	
	Phosphoric acid solution)	
· ADR	2922 Corrosive liquids, toxic, n.o.s. (Hydrogen fluoride,	
	Phosphoric acid solution), ENVIRONMENTALLY	
	HAZARDOUS	
· IMDG, IATA	CORROSIVE LIQUID, TOXIC, N.O.S. (HYDROGEN	
	FLUORIDE, PHOSPHORIC ACID, SOLUTION)	

- · Transport hazard class(es)
- $\cdot DOT$



· Class 8 Corrosive substances

(Contd. on page 10)

Printing date 11/22/2016 Reviewed on 11/22/2016

Trade name: Bulk Bond® 315 RP

(Contd. of page
8, 6.1
8 Corrosive substances
8+6.1
8 Corrosive substances
8/6.1
8 Corrosive substances 8 (6.1)
II
Product contains environmentally hazardous substances zinc oxide
No
Symbol (fish and tree)
Warning: Corrosive substances
86
F- A , S - B
Acids
B SW2 GL CL C
SW2 Clear of living quarters.
I of Not applicable.
On passenger aircraft/rail: 1 L

Printing date 11/22/2016 Reviewed on 11/22/2016

Trade name: Bulk Bond® 315 RP

	(Contd. of page 10
ADR	
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
IMDG	
Limited quantities (LQ)	IL
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
UN "Model Regulation":	UN 2922 CORROSIVE LIQUIDS, TOXIC, N.O.S
G	(HYDROGEN FLUORIDE, PHOSPHORIC ACID
	SOLUTION), 8 (6.1), II

Regulator	information
· Safety, healt · Sara	h and environmental regulations/legislation specific for the substance or mixture
· Section 355	(extremely hazardous substances):
7664-39-3 h	ydrofluoric acid
Section 313	(Specific toxic chemical listings):
1314-13-2	zinc oxide
7664-39-3	hydrofluoric acid
13138-45-9	nickel dinitrate
· TSCA (Toxi	Substances Control Act):
All ingredier	ts are listed.
· New Jersey .	Right to Know
7664-38-2 p	hosphoric acid
1314-13-2 z	inc oxide
7664-39-3 h	ydrofluoric acid
· Pennsylvani	a Right to Know
7664-38-2 p	hosphoric acid
1314-13-2 z	inc oxide
7664-39-3 h	ydrofluoric acid
Proposition	65
· Chemicals k	nown to cause cancer:
13138-45-9	nickel dinitrate
· Chemicals k	nown to cause reproductive toxicity for females:

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

(Contd. on page 12)

Printing date 11/22/2016 Reviewed on 11/22/2016

Trade name: Bulk Bond® 315 RP

(Contd. of page 11)

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

1314-13-2 zinc oxide

D, I, II

TLV (Threshold Limit Value established by ACGIH)

13138-45-9 nickel dinitrate

A4

· NIOSH-Ca (National Institute for Occupational Safety and Health)

13138-45-9 nickel dinitrate

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms







GHS05

GHS06

GHS08

· Signal word Danger

Hazard-determining components of labeling:

phosphoric acid

hydrofluoric acid

nickel dinitrate

· Hazard statements

Toxic in contact with skin.

Harmful if inhaled.

Causes severe skin burns and eye damage.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

Suspected of causing genetic defects.

May cause cancer.

May damage fertility or the unborn child.

Causes damage to organs through prolonged or repeated exposure.

· Precautionary statements

Do not breathe dusts or mists.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a POISON CENTER/doctor.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

(Contd. on page 13)

Printing date 11/22/2016 Reviewed on 11/22/2016

Trade name: Bulk Bond® 315 RP

(Contd. of page 12)

Department issuing SDS:

Environmental,

Safety and Health

- · Contact: SDS Coordinator
- · Date of preparation / last revision 11/22/2016 / -

· Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, ĚU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

BEI: Biological Exposure Limit

Acute Tox. 3: Acute toxicity – Category 3

Acute Tox. 4: Acute toxicity - Category 4

Skin Corr. 1C: Skin corrosion/irritation – Category 1C

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Resp. Sens. 1: Respiratory sensitisation – Category 1

Skin Sens. 1: Skin sensitisation – Category 1

Muta. 2: Germ cell mutagenicity – Category 2

Carc. 1A: Carcinogenicity - Category 1A

Repr. 1B: Reproductive toxicity - Category 1B

STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1

...